

Notice of Allowability

Application No.

10/029,277

Examiner

Anthony S. Addy

Applicant(s)

KANG ET AL.

Art Unit

2681

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Remark/Ammendment on 12/29/2004.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ The drawings filed on 28 December 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

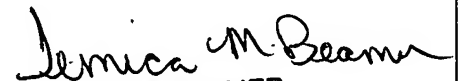
5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



07/25/2005


TEMICA BEAMER
PRIMARY EXAMINER

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Oren (Reg. No. 38694) on 07 July 2005.

The application has been amended as follows:

Specification: Paragraph [0025]

Line 1, delete "FIGS. 2A and 2B" and replace with --FIG. 2--

Paragraph [0033]

Line 4, delete "FIGS. 2A and 2B" and replace with --FIG. 2--

Paragraph [0035]

Line 1, delete "FIGS. 2A and 2B" and replace with --FIG. 2--

2. Claims 1-20 are allowed.

3. The following is a statement of reasons for the indication of allowable subject matter:

The present invention relates to a mobile communication system and more particularly, to a method for transmitting messages on a paging channel, in which data burst messages are efficiently transmitted through the paging channel.

The instant invention with respect to claims 1 and 8, teaches a method for transmitting messages on a paging channel, identifying the uniquely distinct features "determining whether a total length of overhead messages and data messages exceeds one slot; and transmitting data messages while transmitting the overhead messages after delaying one of the overhead messages and the data messages by a predetermined period on a corresponding slot, if the total length of the overhead messages and the data messages exceeds one slot when the overhead messages are transmitted at a constant overhead message transmission period."

The closest prior art, **Yeom, U.S. Patent Number 6,526,027** teaches a broadcast short message service (SMS) execution method in a mobile communication system, more particularly, to the method for executing a broadcast short message service so as to distribute effectively the load of paging channels by improving the existing method (see col. 1, lines 8-13). Yeom further teaches a broadcast short message broadcasting service execution method that when a base station is requested to simultaneously broadcast both the paging information and the broadcast short message information into the paging channel slot of the corresponding mobile terminal, executes first the broadcast short message service by allocating one of the currently unoccupied reserve paging channels to a dedicated channel of the broadcast short message service and then broadcasts the paging information through the original paging channel (see col. 3, lines 5-14). However, Yeom fails to anticipate or render the above underlined limitations in combination with all the recited limitations of claims 1 and 8 obvious, over any of the prior art of record, alone or in combination.

The instant invention with respect to claim 14, teaches a method, identifying the uniquely distinct features "determining if a length of overhead messages and data burst messages to be transmitted on a slot of a paging channel exceed one slot; transmitting the data burst message on a specific slot; delaying the overhead message if the determined length exceeds one slot."

The closest prior art, **Yeom, U.S. Patent Number 6,526,027** teaches a broadcast short message service (SMS) execution method in a mobile communication system, more particularly, to the method for executing a broadcast short message service so as to distribute effectively the load of paging channels by improving the existing method (see col. 1, lines 8-13). Yeom further teaches a broadcast short message broadcasting service execution method that when a base station is requested to simultaneously broadcast both the paging information and the broadcast short message information into the paging channel slot of the corresponding mobile terminal, executes first the broadcast short message service by allocating one of the currently unoccupied reserve paging channels to a dedicated channel of the broadcast short message service and then broadcasts the paging information through the original paging channel (see col. 3, lines 5-14). However, Yeom fails to anticipate or render the above underlined limitations in combination with all the recited limitations of claim 14 obvious, over any of the prior art of record, alone or in combination.

The instant invention with respect to claim 18, teaches a method, identifying the uniquely distinct features "determining a length of overhead messages and data messages to be transmitted on a slot of a paging channel; transmitting the overhead

messages during a first message transmission period; delaying the data messages, based on the determined length, to a slot having a same number in a second overhead message transmission period."

The closest prior art, **Yeom, U.S. Patent Number 6,526,027** teaches a broadcast short message service (SMS) execution method in a mobile communication system, more particularly, to the method for executing a broadcast short message service so as to distribute effectively the load of paging channels by improving the existing method (see col. 1, lines 8-13). Yeom further teaches a broadcast short message broadcasting service execution method that when a base station is requested to simultaneously broadcast both the paging information and the broadcast short message information into the paging channel slot of the corresponding mobile terminal, executes first the broadcast short message service by allocating one of the currently unoccupied reserve paging channels to a dedicated channel of the broadcast short message service and then broadcasts the paging information through the original paging channel (see col. 3, lines 5-14). However, Yeom fails to anticipate or render the above underlined limitations in combination with all the recited limitations of claim 18 obvious, over any of the prior art of record, alone or in combination.

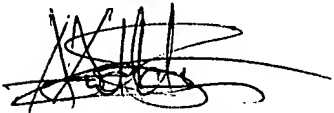
Conclusion

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony S. Addy whose telephone number is 571-272-7795. The examiner can normally be reached on Mon-Thur 8:00am-6:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Anthony S. Addy', with a large, stylized flourish extending from the end of the signature.

Anthony S. Addy
July 25, 2005